

CW-TH Series ESS

All-in-One Storage System

CW20K-100-TH CW30K-100-TH CW40K-100-TH CW50K-100-TH

The CW-TH Series ESS is a All-in-One storage system for commercial business with compatible design. It works with 50kW PCS and 105kWh batteries system. It supports storing energy from diesel generator.



Advanced electrical technology with up to 98.2% efficiency All-in-one design and highly integrated

User-friendly

Industrial design with a modern aesthetic look Easy to install and simple to use Grid-support & grid-forming

All-in-one

Modular design with different optional part.
Parallel installation side-by-side or back-to-back.
Supports storing energy from diesel generator.
Max. 10 pcs parallel for on-grid and off-grid operation;
Support multiple batteries parallel

Reliable

IP55 protection degree for outside installation Independent design of electrical structure and battery system

Intelligent

Exclusive Li-ion battery BMS and EMS management Time-slot function to save cost with peak-valley









Model	CW20K-100-TH	CW30K-100-TH	CW40K-100-TH	CW50K-100-TH
DC Data				
Battery Type	LiFePO ₄	LiFePO ₄	LiFePO ₄	LiFePO ₄
Battery Energy	98.88kWh/1P30S	98.88kWh/1P30S	98.88kWh/1P30S	98.88kWh/1P30S
Battery Voltage Range	504Vdc ~ 648Vdc	504Vdc ~ 648Vdc	504Vdc ~ 648Vdc	504Vdc ~ 648Vdc
Rated Voltage	576V	576V	576V	576V
Pack	206Ah/LFP 3.2V	206Ah/LFP 3.2V	206Ah/LFP 3.2V	206Ah/LFP 3.2V
Cycle Life	≥ 6000@0.5C 25°C	≥ 6000@0.5C 25°C	≥ 6000@0.5C 25°C	≥ 6000@0.5C 25°C
Communication	RS485 / CAN	RS485 / CAN	RS485 / CAN	RS485 / CAN
PCS Parameters				
Rated Output Power	20KW	30KW	40KW	50KW
Max. Rated Output Power	22KW	33KW	44KW	55KW
Rated Grid Voltage	3L / N / PE 400VAC	3L / N / PE 400VAC	3L / N / PE 400VAC	3L / N / PE 400VAC
Grid Frequency	50/60Hz	50/60Hz	50/60Hz	50/60Hz
Output THDi	<3%	<3%	<3%	<3%
Peak Efficiency	98.2%	97.6%	97.6%	97.6%
PV String Input Data				
Max. DC Input Power (W)	30000	39000	52000	65000
MPPT Voltage Range (V)	180V~960V	150V~850V	150V~850V	150V~850V
Start-up Voltage (V)	200	180	180	180
Rated DC Input Voltage (V)	600	600	600	600
No.of MPPT Trackers/ No.of String Per MPPT Tracker	2/2, 2+2	3/2+2+2	4/2+2+2+2	4/2+2+2+2
General Data				
Dimensions (W x D x H)	1100x1000x2100 mm			
Weight of the Whole System	1200 KG(BATT)+35KG/80KG(INVERTER)			
Protection Level	IP55			
Operating Temperature Range	-20°C ~ 50°C			
Relative Humidity	0 ~ 95% (Non-Condensing)			
Warranty	5 Years Product Warranty			
Cooling	Forced Air-Cooling			
Fire Protection	Aerosol Fire Protection			
Certifications	EN62109, EN62477, IEC61000, VDE4105, EN50549			

Commercial & Industrial Solution Supports Your Business

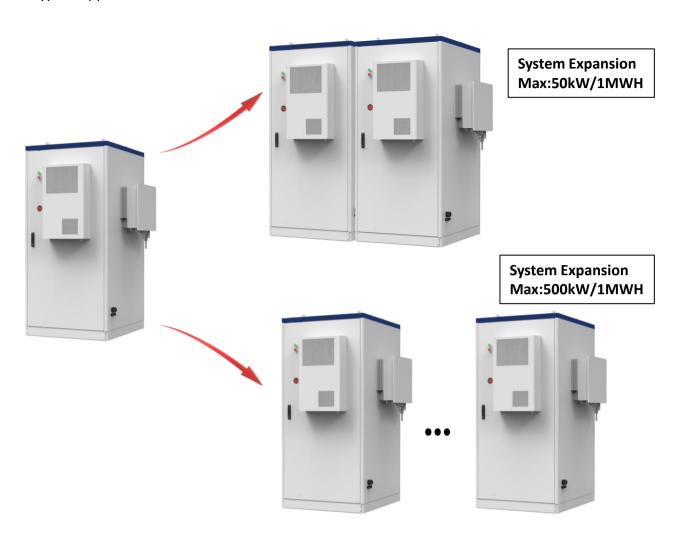
Energy Storage System

Sinexcel ESS is a world-leading energy storage solutio n and service provider covering the full power range.

New Life with Zero Carbon Empowered by Technology



Typical application cases



500kWh with 10 strings version

